

Name: \_\_\_\_\_

**at1110paper\_practice\_test (v120)**

1. Solve the equation with factoring by grouping.

$$10x^2 + 15x - 12x - 18 = 0$$

2. Solve the equation.

$$(6x - 5)(7x + 3) = 0$$

3. Factor the expression.

$$x^2 + 2x - 48$$

4. Factor the expression.

$$49x^2 - 36$$

5. Expand the following expression into standard form.

$$(4x + 9)(3x - 8)$$

6. Expand the following expression into standard form.

$$(5x - 7)(5x + 7)$$

7. Solve the equation.

$$9x^2 - 9x + 12 = 4x^2 + 5x + 3$$

8. Expand the following expression into standard form.

$$(3x - 8)^2$$